

ROTATIONAL PULSATION SYSTEM AND METHOD FOR COMMUNICATING

ABSTRACT

Disclosed herein is a rotational pulsation system including a rotor having turbine blades to drive the rotor. A centralizer having coils and a stator package positioned to operably communicate with permanent magnets at the rotor and a rotational screen disk/static screen disk disposed at the rotor.

A method for communicating in a wellbore includes spinning a rotational pulsation system to create a first frequency and applying and removing an electrical load according to a message to be communicated.